

ABSTRACT

DATA PROCESSING APPARATUS AND METHOD

5 A detecting data processing apparatus determines whether one or more code words of a predetermined set of code words are present in a suspected version of a material item. The apparatus comprises a registration processor operable to associate samples of the suspected version with samples of a copy of the original material item, a recovery processor and a detection processor. The recovery processor is operable to generate a recovered code word by comparing the registered copy of the original and
10 the suspect material items. The detection processor is operable to detect one or more code words from a correlation between the recovered code word and the code words from the set. The registration processor is operable to form at least one reduced-bandwidth-version of the material item and to associate the suspected version and the copy of the material item in accordance with a comparison between the reduced-
15 bandwidth-versions of the suspected version and the original material item.

The registration of the suspected version and the original version of the material item is typically required in order to improve a likelihood of correctly recovering a code word from the suspected version. For material items such as video recordings of motion picture films, a substantial number of samples may need to be
20 associated in order to effect the registration process. As a result, the registration process may be time consuming or at least computationally difficult. However, by forming reduced-bandwidth-versions of the suspected version and the original version of the material items, a corresponding reduction in the time taken to perform the registration process is provide in accordance with the bandwidth reduction.

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[Fig 11]